

AMENDMENTS TO THE CLAIMS:

Please cancel claims 1-42 without prejudice and add claims 43-89, as follows:

1-42. (Cancelled).

43. (New) A communication module for communicatively coupling a first roaming wireless device and a second roaming wireless device to a wired link, the communication module comprising:

a control circuit;

a wired transceiver that is communicatively coupled to the control circuit, the wired transceiver for coupling to the wired link;

a first wireless transceiver that is communicatively coupled to the control circuit, the first wireless transceiver for operating on a first wireless communication channel to communicatively couple with the first roaming wireless device;

a second wireless transceiver that is communicatively coupled to the control circuit, the second wireless transceiver for operating on a second wireless communication channel to communicatively couple with the second roaming device; and

the control circuit accommodates communications between the first wireless transceiver and the second wireless transceiver.

44. (New) The communication module of claim 43, wherein the communication module is adapted for coupling to computer interface circuitry.

45. (New) The communication module of claim 43, wherein the communication module is adapted for insertion into a computing device.

46. (New) The communication module of claim 43, further comprising a bus interface communicatively coupling the control circuit to the first and second wireless transceivers and the wired transceiver.

47. (New) The communication module of claim 46, wherein the bus interface is substantially compliant with a bus standard.

48. (New) The communication module of claim 47, wherein the bus standard is a PCI standard.

49. (New) The communication module of claim 43, wherein the wired transceiver accommodates communication with an Ethernet network.

50. (New) The communication module of claim 43, wherein the wired transceiver accommodates communication with a token-ring network.

51. (New) The communication module of claim 43, wherein the wired transceiver accommodates communication with an asynchronous transfer mode network.

52. (New) The communication module of claim 43, wherein the wired transceiver accommodates communication with a packetized network.

53. (New) The communication module of claim 43, wherein the first wireless transceiver supports a substantially non-deterministic media access protocol and the second wireless transceiver supports a substantially deterministic media access protocol.

54. (New) The communication module of claim 43, wherein the first wireless transceiver and the second wireless transceiver support substantially distinct non-deterministic media access protocols.

55. (New) The communication module of claim 43, wherein the first wireless transceiver and the second wireless transceiver operate independently to form a first communication cell and a second communication cell.

56. (New) The communication module of claim 43, wherein the control circuit synchronizes transmissions on the first wireless communication channel and the second wireless communication channel to minimize conflicts between transmissions on one wireless transceiver and receipts on the other wireless transceiver.

57. (New) The communication module of claim 43, wherein the wired link is a local area network.

58. (New) The communication module of claim 43, wherein the first wireless transceiver and the second wireless transceiver have substantially different operating characteristics.

59. (New) A communication module for establishing communications with a wired link, the communication module comprising:

- a first wireless transceiver operating to establish a first wireless cell;
- a second wireless transceiver operating to establish a second wireless cell;
- the first and second wireless transceivers operating such that the first and second cells are substantially overlapping;
- a control circuit that communicatively couples the first and second wireless transceivers to one another;
- a wired transceiver that communicatively couples the control circuit to the wired link; and
- the control circuit communicatively couples the first wireless transceiver and the wired transceiver.

60. (New) The communication module of claim 59, wherein said communication module is adapted for coupling to computer interface circuitry.

61. (New) The communication module of claim 59, wherein said communication module is adapted for insertion into a computing device.

62. (New) The communication module of claim 59, wherein the first and second wireless transceivers each comprise processing circuitry that supports a communication protocol.

63. (New) The communication module of claim 59, wherein the control circuit allows communications between the first wireless transceiver and the second wireless transceiver.

64. (New) The communication module of claim 59, wherein the first wireless transceiver supports a substantially non-deterministic media access protocol and the second wireless transceiver supports a substantially deterministic media access protocol.

65. (New) The communication module of claim 59, wherein the first wireless transceiver and the second wireless transceiver support substantially distinct non-deterministic media access protocols.

66. (New) A communication module for establishing communications with a wired link, the communication module comprising:

processing circuitry operating to send and receive data according to a first protocol; and

interface circuitry operable to:

receive data from the processing circuitry according to the first protocol;

send data to a plurality of wireless transceivers operating on independent wireless communication channels, according to at least a second protocol independent of the first protocol;

send data to a wired transceiver operating on the wired link, according to a third protocol independent of the first and second protocols;

receive data from the plurality of wireless transceivers according to at least the second protocol independent of the first protocol;

receive data from the wired transceiver according to the third protocol independent of the first and second protocols; and

send data to the processing circuitry according to the first protocol.

67. (New) The communication module of claim 66, wherein said communication module is adapted for coupling to computer interface circuitry.

68. (New) The communication module of claim 66, wherein said communication module is adapted for insertion into a computing device.

69. (New) The communication module of claim 66, wherein the second and third protocols are the same and comply with PCI bus standards.

70. (New) The communication module of claim 66, wherein the processing circuitry is programmed with a network configuration to selectively route data through the interface circuitry to the plurality of wireless transceivers and the wired link.

71. (New) The communication module of claim 66, further comprising at least one acceptor for modularly receiving the plurality of wireless transceivers.

72. (New) The communication module of claim 71, wherein the plurality of transceivers are carried by at least one PCMCIA card.

73. (New) The communication module of claim 66, wherein the plurality of wireless transceivers operate independently to form a plurality of communication cells.

74. (New) The communication module of claim 73, wherein the plurality of communication cells are formed by the plurality of wireless transceivers operating at different data rates.

75. (New) The communication module of claim 73, wherein the plurality of communication cells are formed by the plurality of wireless transceivers operating at different power levels.

76. (New) The communication module of claim 66, wherein the independent wireless communication channels are differentiated by a characteristic selected from the group consisting of frequencies, modulation schemes and code spreading schemes.

77. (New) A communication module for establishing communications with a wired link, the communication module comprising:

- a PCMCIA interface capable of modularly receiving a plurality of wireless transceivers for operating on independent wireless communication channels;

- a wired transceiver that operates on the wired link;

- interface circuitry operable to communicate with wireless transceivers modularly received via the PCMCIA interface and with the wired transceiver; and

- processing circuitry coupled to the interface circuitry to control communications by the wireless transceivers modularly received via the PCMCIA interface and by the wired transceiver.

78. (New) The communication module of claim 77, wherein said communication module is adapted for coupling to computer interface circuitry.

79. (New) The communication module of claim 77, wherein said communication module is adapted for insertion into a computing device.

80. (New) The communication module of claim 77, wherein the interface circuitry comprises a PCI bus interface for communicating with the wireless transceivers modularly received via the PCMCIA interface and with the wired transceiver according to PCI bus standards.

81. (New) The communication module of claim 77, wherein the processing circuitry is programmed with a network configuration to selectively route data through the interface circuitry to the plurality of wireless transceivers and the wired link.

82. (New) The communication module of claim 77, wherein the plurality of wireless transceivers operate independently to form a plurality of communication cells.

83. (New) The communication module of claim 82, wherein the plurality of communication cells are formed by the plurality of wireless transceivers operating at different data rates.

84. (New) The communication module of claim 82, wherein the plurality of communication cells are formed by the plurality of wireless transceivers operating at different power levels.

85. (New) A communication module for establishing communications with a wired link, the communication module comprising:

an interface system for modularly receiving a plurality of wireless transceivers for operating on independent wireless communication channels;

interface circuitry operable to communicate with wireless transceivers modularly received via the interface system; and

processing circuitry coupled to the interface circuitry to control communications effected by wireless transceivers modularly received via the interface system.

86. (New) The communication module of claim 85, wherein said communication module is adapted for coupling to computer interface circuitry.

87. (New) The communication module of claim 85, wherein said communication module is adapted for insertion into a computing device.

88. (New) The communication module of claim 85, wherein the interface system is configured to receive a plurality of cards each carrying at least one of the plurality of wireless transceivers.

89. (New) The communication module of claim 88, wherein the plurality of wireless transceivers carried by the plurality of cards have substantially different operating characteristics.